

This listing of claims will replace all prior versions, and listings, of claims in the application:

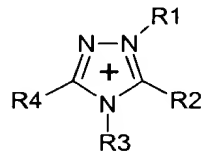
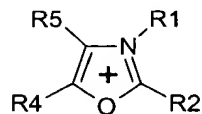
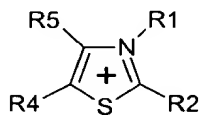
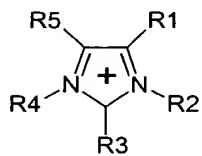
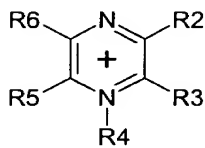
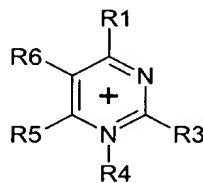
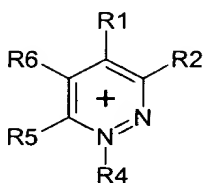
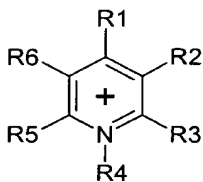
Listing of Claims:

1. (Currently Amended): A compound of the formula



wherein:

K^+ is a cation selected from

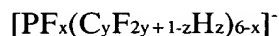


where

R^1 to R^6 are identical or different and are each individually

- H,
- halogen,
- an alkyl radical (C_1 to C_8), which is unsubstituted or partially or fully substituted by F, Cl, $N(C_nF_{(2n+1-x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, or $(C_nF_{(2n+1-x)}H_x)$, where $1 < n < 6$ and $0 < x \leq 13$,
- a phenyl radical which is unsubstituted or partially or fully substituted by F, Cl, $N(C_nF_{(2n+1+x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$ or $C_nF_{(2n+1-x)}H_x$ where $1 < n < 6$ and $0 < x \leq 13$, or
- one or more pairs of adjacent R^1 to R^6 can also be an alkylene or alkenylene radical having up to 8 C atoms and which is unsubstituted or partially or fully unsubstituted by halogen, $N(C_nF_{(2n+1-x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$ or $C_nF_{(2n+1-x)}H_x$ where $1 < n < 6$ and $0 \leq x \leq 13$; and

A^- is an anion of the following formula



where $1 \leq x < 6$

$2 \leq y \leq 8$ and

$0 \leq z \leq 2y + 1$.

2. (Original): A compound according to claim 1, wherein at least one R^1 to R^6 group is a halogen.
3. (Previously Presented): A compound according to claim 1, wherein at least one R^1 to R^6 group is an alkyl radical (C_1 to C_8), which is unsubstituted or partially or fully substituted by F, Cl, $N(C_nF_{(2n+1-x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, or $(C_nF_{(2n+1-x)}H_x)$, where $1 < n < 6$ and $0 < x \leq 13$.
4. (Original): A compound according to claim 1, wherein at least one R^1 to R^6 group is a phenyl radical which is unsubstituted or partially or fully substituted by F, Cl,

$N(C_nF_{(2n+1-x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$ or $C_nF_{(2n+1-x)}H_x$ where $1 < n < 6$ and $0 < x \leq 13$.

5. (Original): A compound according to claim 1, wherein at least one adjacent pair of R^1 to R^6 is an alkylene or alkenylene radical having up to 8 C atoms and which is unsubstituted or partially or fully unsubstituted by halogen, $N(C_nF_{(2n+1-x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$ or $C_nF_{(2n+1-x)}H_x$ where $1 < n < 6$ and $0 \leq x \leq 13$.

6. (Original): A compound according to claim 1, wherein said compound has at least one perfluorinated alkyl group.

7. (Original): A compound according to claim 1, wherein said compound contains at least one $C_yF_{2y+1-z}H_z$ group selected from C_2F_5 and C_4F_9 .

8. (Original): An electrochemical cell comprising a cathode, an anode, a separator, and an ionic liquid of claim 1.

9. (Original): A capacitor comprising of at least a pair of electrodes, a separator, and an ionic liquid of claim 1.

10. (Original): An electrolyte composition comprising an ionic liquid of claim 1 and an aprotic solvent.

11. (Original): An electrolyte composition comprising an ionic liquid of claim 1 and a conductive salt.

12. (Previously Presented): A compound according to claim 1, wherein said compound is:

1-ethyl-3-methylimidazolium tris(pentafluoroethyl)trifluorophosphate;

1,2-dimethyl-3-propylimidazolium tris(pentafluoroethyl)trifluorophosphate; or

1-ethyl-3-methylimidazolium tris(nonafluorobutyl)trifluorophosphate.

13. (Previously Presented): A compound according to claim 12, wherein said compound is 1-ethyl-3-methylimidazolium tris(pentafluoroethyl)trifluorophosphate.

14. (Previously Presented): A compound according to claim 1, wherein R^1 to R^6 are each H or a C_1 to C_8 alkyl, which is unsubstituted or partially or fully substituted by F, Cl, $N(C_nF_{(2n+1-x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, or $(C_nF_{(2n+1-x)}H_x)$, where $1 < n < 6$ and $0 < x \leq 13$.

15. (Previously Presented): A compound according to claim 1, wherein R^1 to R^6 are each H or a C_1 to C_8 alkyl.

16. (Previously Presented): An electrolyte composition according to claim 11, wherein said conductive salt is $LiPF_6$, $LiBF_4$, $LiClO_4$, $LiAsF_6$, $LiCF_3SO_3$, $LiN(CF_3SO_2)_2$, $LiC(CF_3SO_2)_3$ or a mixture thereof.

17. (Previously Presented): An electrolyte composition according to claim 11, wherein said composition contains 1-99 wt% of said ionic liquid.

18. (Previously Presented): An electrolyte composition according to claim 11, wherein said composition further contains an organic isocyanate.

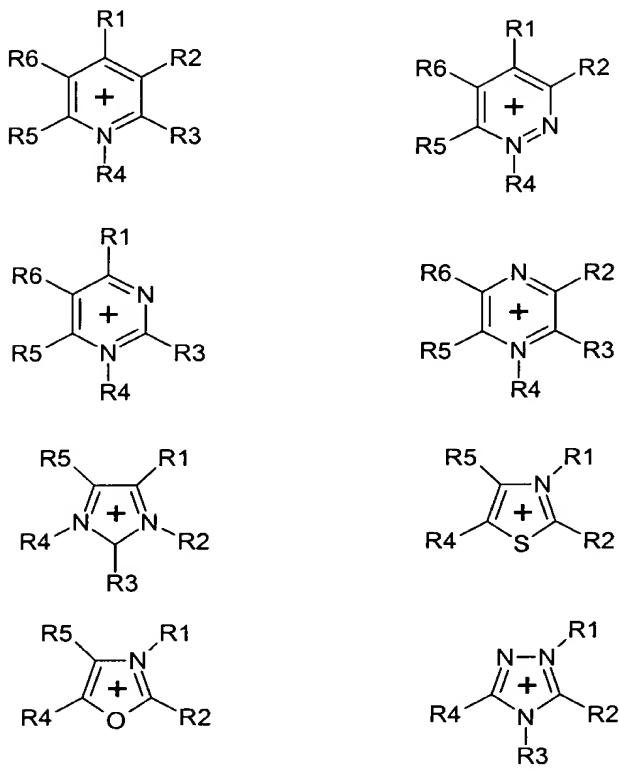
19. (Currently Amended): A compound according to claim 1, wherein $1 \leq z \leq 2y+1$ ~~$2 \leq y \leq 8$~~ .

20. (Currently Amended): A compound according to ~~claim 1~~, wherein of the formula



wherein:

K⁺ is a cation selected from



where

R¹ to R⁶ are identical or different and are each individually

- H,

- halogen,

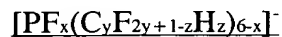
- an alkyl radical (C₁ to C₈), which is unsubstituted or partially or fully substituted by F, Cl, N(C_nF_(2n+1-x)H_x)₂, O(C_nF_(2n+1-x)H_x), or (C_nF_(2n+1-x)H_x), where 1 < n < 6 and 0 < x ≤ 13,

- a phenyl radical which is unsubstituted or partially or fully substituted by F, Cl, N(C_nF_(2n+1+x)H_x)₂, O(C_nF_(2n+1-1)H_x), SO₂(C_nF_(2n+1-x)H_x) or C_nF_(2n+1-x)H_x where 1 < n < 6 and 0 < x ≤ 13, or

- one or more pairs of adjacent R¹ to R⁶ can also be an alkylene or alkenylene radical having up to 8 C atoms and which is unsubstituted or partially or fully unsubstituted

by halogen, $N(C_nF_{(2n+1-x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$ or $C_nF_{(2n+1-x)}H_x$ where $1 < n < 6$ and $0 \leq x \leq 13$; and

A^- is an anion of the following formula

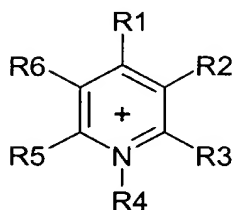


where $1 \leq x < 6$

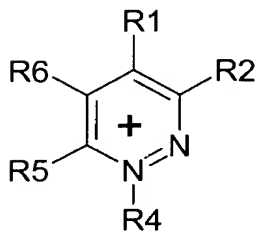
$2 \leq y \leq 8$ and

$1 \leq z \leq 2y+1$.

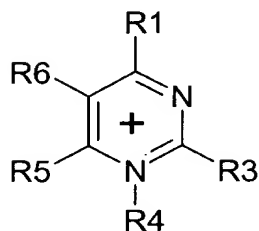
21. (Previously Presented; Withdrawn): A compound according to claim 1, wherein K^+ is



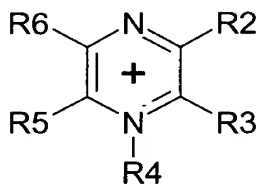
22. (Previously Presented; Withdrawn): A compound according to claim 1, wherein K^+ is



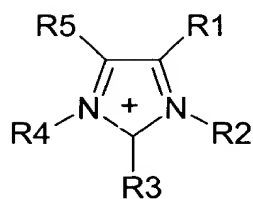
23. (Previously Presented; Withdrawn): A compound according to claim 1, wherein K^+ is



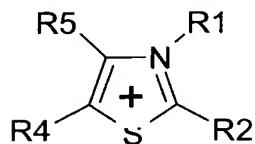
24. (Previously Presented; Withdrawn): A compound according to claim 1, wherein K^+ is



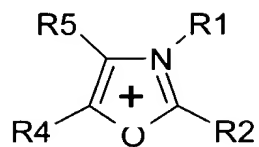
25. (Previously Presented): A compound according to claim 1, wherein K^+ is



26. (Previously Presented; Withdrawn): A compound according to claim 1, wherein K^+ is



27. (Previously Presented; Withdrawn): A compound according to claim 1,
wherein K^+ is



28. (Previously Presented; Withdrawn): A compound according to claim 1,
wherein K^+ is

